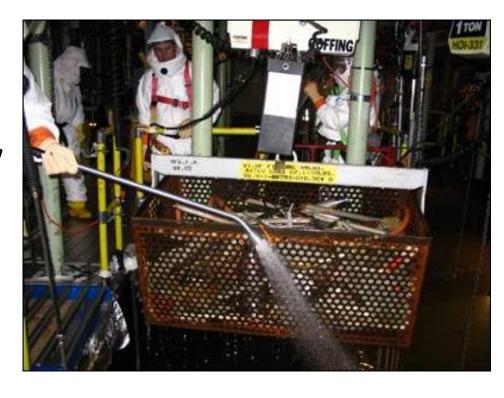
SNF Stabilization and Disposition (RL-0012)

P. M. Knollmeyer, Vice President of K Basins Closure/ (509) 376-5600



IP-2 Container holding K East racks and debris. Use of a newly installed load out station and ERDF ready containers has improved efficiency of debris removal.

Debris basket load out via the load out station in K East Basin



Overview

This section addresses work in Project Baseline Summary (PBS) RL-0012, *Spent Nuclear Fuel Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of October 2005.

Notable Accomplishments

SNF Stabilization and Disposition (PBS RL-0012)

Sludge Retrieval and Transfer: Progress continued ahead of schedule in the K East Basin with 135 of 204 racks (66 percent/+ 17 racks) and 420 of 1594 debris units (26 percent/+65 debris units) removed. Two IP-2 containers holding K East racks and debris units were shipped to the Environmental Restoration Disposal Facility (ERDF) (first IP-2 shipments) on November 15, 2005. The Hose-in-Hose (HIH) sludge transfer subproject completed the installation of all major system components.

Sludge Treatment: The Sludge Treatment Project completed implementation of the revised statement of work with British Nuclear Group America (BNGA) on October 18, 2005. The overall treatment system design progressed to 53 percent. However, the transfer system design effort was placed on hold in order to evaluate transfer pump erosion test results.

Issues

Sludge Retrieval and Transfer: The HIH subproject has identified a number of material/fabrication and installation issues that have slowed installation. An engineering task team has been established to review, identify, and provide a continual flow of approved design change notices to construction forces in order to minimize the impact to the progress of installation. The non-conformance report (NCR) process is remedying quality deficiencies. A delay of one month is forecast to complete the HIH installation.

Sludge Treatment Retrieval and Transfer Design: Erosion test results on the HIH transfer pumps indicate that pump casing wear may necessitate use of an alternative pump type and/or prevent reuse of the HIH transfer stations. Based on this preliminary information, the design of the retrieval transfer system was placed on hold while alternatives are developed.

100K Area Seismic Analysis: An analysis is being performed for the 100K Area evaluating revised seismic criteria and potential changes required for existing facilities. Of particular concern are any effects on the design parameters of the sludge treatment system and facility modifications for the Cold Vacuum Drying Facility. Results of the analysis are expected in January 2006.

FY 2006 Funds vs. Spend Forecast (\$M)

		.,		FY 2006 Fiscal Year Spend Forecast		Variance	
RL-0012	SNF Stabilization & Disposition	\$	122.9	\$	117.1	\$	5.8
	Total	\$	122.9	\$	117.1	\$	5.8

FY 2006 Schedule/Cost Performance (\$M)

		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-0012	SNF Stabilization &	\$7.1	\$7.6	\$7.4	\$0.6	7.9%	\$0.2	2.5%	\$119.9
	Disposition								
Total		\$7.1	\$7.6	\$7.4	\$0.6	7.3%	\$0.2	2.5%	\$119.9

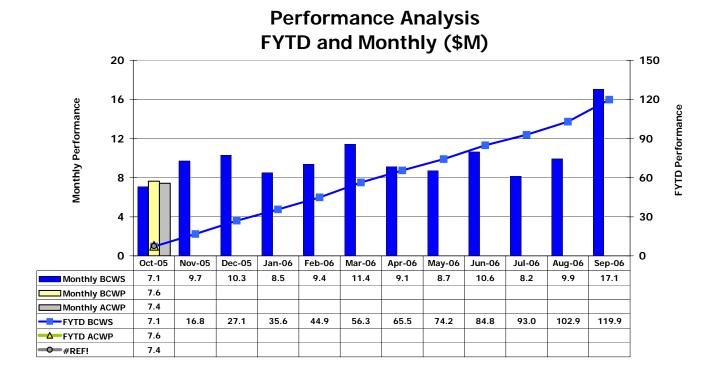
Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

Schedule Performance (+\$0.6M+7.3%): The variance is due to:

- K East and K West Rack and Debris removal ahead of plan (+\$0.5M)
- BNGA design work ahead of schedule (+\$0.1M)
- D&D Discharge Chute fixative completed early (+\$0.1M)
- Miscellaneous delays (-\$0.1M)

Cost Performance (+\$0.2M/+2.5%): The variance is due to:

- Labor accrual adjustments for FY 2005 yearend accruals and NOC staffing level higher than planned (-\$0.2M)
- CSB charges to KBC; being corrected (-\$0.1M)
- K East and K West Rack and Debris removal costing less than plan (+\$0.4M)
- IXMs charged earlier than planned (performance not fully statused (-\$0.1M)
- Uncosted subcontractor support for Sludge Treatment (+\$0.2M)



Milestone Achievement

		Type (TPA/PI/				
Number	Milestone Title	DNFSB)	Due Date	Actual Date	Forecast Date	Status / Comments
M-034-18B	Complete removal of all K Basin SNF	TPA/DNFSB/ PI	07/31/04	10/15/04		Complete
(S00-00-902)						
(S10-05-012)	Daniel CNE from I/ Danie	DNIECD	07/04/04	10/10/04		0
	Remove SNF from K Basins	DNFSB	07/31/04	10/12/04		Complete
(S10-05-012) RI-12-1.aa	Complete SNF Removal from	PI	00/21/04	10/15/04		Complete
(S10-99-960)	K West	PI	08/31/04	10/15/04		Complete
RL12-1.cd	Initiate Full Scale K East Water	PI	09/30/04	09/19/04		Complete
(S10-99-977)	Removal	FI	07/30/04	09/19/04		Complete
M-034-33A	Initiate Sludge Containerization	TPA	10/31/04	10/31/04		Complete
(S10-05-009)	miliate sladge containerization	117	10/31/04	10/31/04		Complete
DNFSB 121	Select Sludge Treatment Method	DNFSB	11/30/04	11/15/04		Complete
(S10-05-013)	Scient Staage Treatment Wethou	DIVIOD	11700701	11710701		Complete
RL-12-1.c	Complete K East Discharge Chute	PI	12/30/04	08/20/04		Complete
(S10-99-966)	Immobilization					
DNFSB 119E	Complete K East Sludge Consolidation	DNFSB	12/31/04		10/31/06	Behind Schedule
(S10-05-014)						
M-034-33B	Complete K East Sludge	TPA	03/01/05		10/31/06	Behind Schedule
(S10-05-018)	Containerization					
S10-99-80	Complete MCO Welding	PI	06/30/05	06/16/05		Complete
DNFSB 120E	Complete K East Basin Sludge Removal	DNFSB	07/31/05		05/31/07	Behind Schedule
(S10-05-015)						
RL-12-1.b	Transfer K East Sludge to K West	PI	11/30/05 *		05/31/07	Behind Schedule
(S10-99-082)	Containers					
RL-12-1.bb	Transfer Found Fuel and Fuel Scrap	PI	11/30/05 *		11/09/06	Behind Schedule
(S10-99-963)	from K East to K West					
M34-21-T1	Initiate Full Scale K West Basin Water	TPA	12/31/05	09/26/05		Complete
(S10-99-951)	Removal					
RL-12-1.cg	Immobilize K West Discharge Chute	PI	12/31/05	09/26/05		Complete
(S10-99-973)						
M-034-34	Complete Removal of K East Sludge	TPA	01/31/06		05/31/07	Behind Schedule
(S10-05-010)						
RL-12-1.ch	Complete Removal of Contaminated	PI	01/31/06	06/21/05		Complete
(S10-99-976)	Fuel Canisters					
RL-12-1.ce	Complete K East Water Removal	PI	01/31/06		11/02/07	Behind Schedule
(S10-99-978)		21/202			/- / /	
DNFSB 119W	Complete K West Sludge	DNFSB	02/28/06	1	07/31/07	Behind Schedule
(S10-05-016)	Containerization	D.	02/20/0/		11/02/07	Behind Schedule
RL-12-1.ca (S10-99-967)	Encapsulate 3 K East Bays	PI	02/28/06		11/02/07	penina scheanie
RL-12-1.bd	Commencement of Floor and Canister	PI	07/31/06 *	-	10/27/08	Behind Schedule
	Sludge Treatment	F.I	07/31/00	1	10/2//00	Definition Scriedule
RL-12-1.cb	Remove K East Superstructure	PI	06/30/06		08/14/08	Behind Schedule
(S10-99-968)	nomove it Last Superstructure	''	00/30/00		00/14/00	Definia Schedule
M-034-35	Containerize K West Sludge	TPA	06/30/06		07/31/07	Behind Schedule
(S10-05-011)	Something is west sludge		33,30,00	1	5,,51,6,	S.iii a concadio
RL-12-1.cc	Complete First K East Basin Section	PI	07/31/06	1	12/12/08	Behind Schedule
(S10-99-969)	Disposal		3.,31,00	1	12, 12,00	23
RL-12-1.ci	Decon/Immobilize K West Basin Wall	PI	08/31/06		12/28/09	Behind Schedule
(S10-99-971)	(7600 sq. ft.)		33, 31, 00	1	.2,20,07	23
RL-12-1.bc	Remove Found Fuel and Scrap	PI	09/30/06		06/06/08	Behind Schedule
(S10-99-081)		• • •	220,00		22. 55, 55	
RL-12-1.cf	Complete K East Basin Removal	PI	09/30/06		07/07/09	Behind Schedule
(S10-99-972)		•		Ī	I	

NOTE: Forecast dates reflect revised KBC baseline.